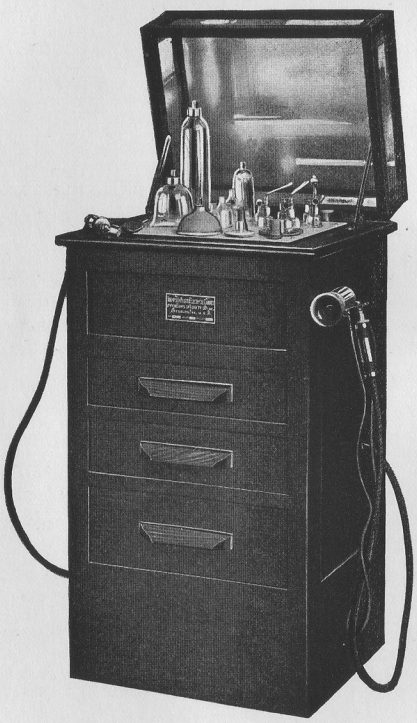


MODEL "A" THOMPSON-PLASTER CABINET

(*See page* 67)

CHAPTER XV

THE THOMPSON-PLASTER ELECTRICAL CABINET

THE Thompson-Plaster Electrical Cabinet illustrated on the opposite page contains a whole office mechanical equipment occupying a floor space of but 18 x 22 inches.

Within this compact space, the physician finds, at an extremely moderate price, many of the appliances he earnestly desires to have, but which, singly, a prohibitive price has debarred him from using.

MODEL A

This will operate on either the alternating or direct current, but we must know in advance which current you have so as to adapt the motor to the current.

Any style of finish of cabinet may be obtained.

This style has the 1916 Thompson-Plaster pump.

It occupies floor space of only 18 x 22 inches.

It embraces:

1. Tankless compressed air from 0 to 40 lbs.
2. Complete nebulizing outfit.
3. Electric heater for fluids.
4. Electric heater for air.
5. A deeply penetrating vibration.
6. Full set of vibratodes for surface and cavities.
7. Heat and vibration applied simultaneously.
8. Bier's hyperemia by vacuum.
9. Full set of cups for vacuum, both glass and rubber.
10. Lung developer and Eustachian tube opener.
11. Pneumo massage or vibrating vacuum.
12. A handsome cabinet in any finish.

A dry-cell Faradic current can be attached to this outfit when desired.

MODEL B

This outfit is specially built for dentists, and literature will be sent on request.

MODEL C

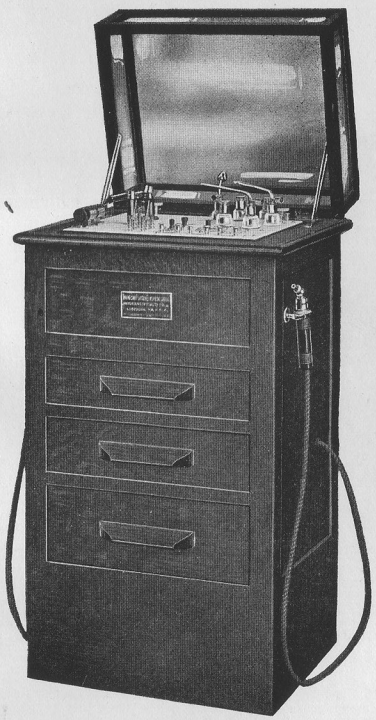
Mounted on a handsome marble plate we have a high-power, high-frequency coil which adds greatly to the value of this cabinet. It has therefore not only the mechanical

---

Jan. 3, 1916.

I am still much pleased with my machine, which after reasonable hard usage seems as good today as the day I first bought it. I thank you kindly for your many past courtesies.

Very truly yours,
DR. S. A. HARDMAN,
Weston, W. Va.



MODEL "C" THOMPSON-PLASTER CABINET

(*See page* 68)

features of A but a number of the electrical modalities, as will appear from list of features below.

It embraces:

1. Tankless compressed air from 0 to 40 lbs.
2. Complete nebulizing outfit.
3. Electric heater for fluids.
4. Electric heater for air.
5. A deeply penetrating vibration.
6. Full set of vibratodes for surface and cavities.
7. Heat and vibration applied simultaneously.
8. Bier's hyperemia by vacuum.
9. Full set of cups for vacuum, both glass and rubber.
10. Lung developer and Eustachian tube opener.
11. Pneumo massage or vibrating vacuum.
12. A very valuable high-frequency current that is adapted to the most delicate or the heaviest uses and under perfect control. This is probably the most valuable current in electro-therapy.
13. Complete set of vacuum electrodes—surface, rectal, vaginal, urethral, nose and throat with universal insulated handle.

Physicians Specialty Co.,
Leesburg, Va.,

Dear Sirs:—Am pleased to say your Electrical Cabinet is everything you say for it.

It is a very good office practice builder; has a good appearance and leaves a good impression with the patient aside from relieving him of "his lumbago."

Not the least of its advantages is its compactness—everything under the same top.

Have not had a thing to break or go wrong with it since I bought it eight months ago although in daily use.

Very truly yours,
(Signed) A. V. Hicks,
5408 Penn Avenue,
Pittsburg, Pa.

14. Special fulguration electrode for removal of warts, moles, etc.

15. D'Arsonval current. This has sufficient amperage for auto-condensation work in lowering blood pressure, etc.

16. Auto-condensation pad with all necessary cords.

17. Cautery transformer. Under perfect and positive regulation. With three platinum knives, a pair of extra flexible cords and handle adjustable to five positions.

18. Diagnostic light controller. With illuminator, long cords and lamps. Has wide range and will control perfectly any lamp made for diagnostic purposes.

19. Sinusoidal current. With cords and handles.

20. Sinusoidal and pneumo massage can be used simultaneously.

This cabinet is specially adapted to the needs of the general practitioner in cities where there are specialists in X-ray work and where there is no need or demand for this class of work. Ear, eye, nose and throat specialists also find in this cabinet just what

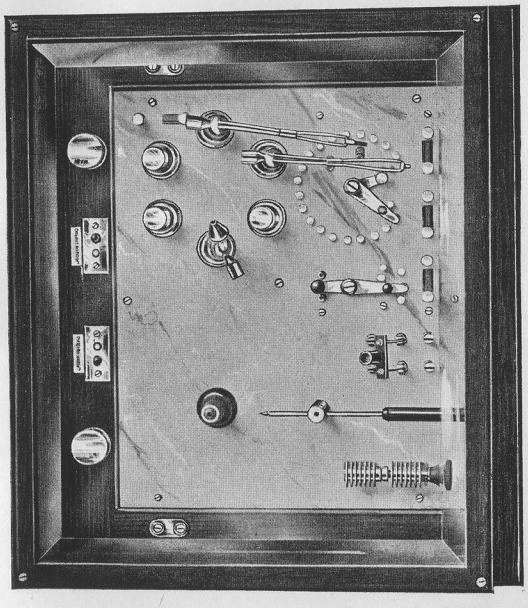
---

April 8, 1916.

Physicians Specialty Co.,
Leesburg, Va.

Gentlemen:—The small oil cup for my Thompson-Plaster Cabinet received. The machine is working fine and has never given me any trouble. Please send me one dozen nickel-plated clips to hold electrodes (small size) and two large size ones. Also send me one insulated nose electrode.

Very truly yours,
J. W. Chetwynd, M. D.,
125 W. Fifth Street,
East Liverpool, Ohio.



TOP VIEW, MODEL "C" THOMPSON-PLASTER CABINET

(*See page 70*)

they have long been looking for in way of office equipment. It embraces practically all the features needed by specialists in this line of work. We omit rectal and vaginal electrodes and vibratodes and other accessories not needed and substitute special eye, nose, throat and ear appliances such as:

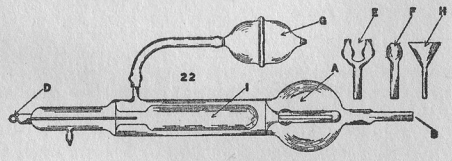
An eye magnet.

Electro surgical instrument cords for all the different styles of scopes made by them.

Fischer suction bottle with silver catheters.

Ozone generator.

Or any part of such equipment as may be desired.



OZONE GENERATOR

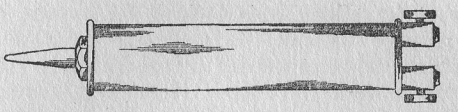
Our dry hot air attachment is specially valuable to the specialist in this line.

Heat is obtained from the cautery. It is therefore under perfect control as to volume and temperature which is absolutely necessary for ear and other delicate work.

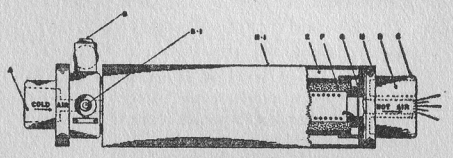
I am still very much pleased with the machine. It is doing good work for me right along. Thanking you, I am,

Very respectfully yours,

H. B. Smith, M. D.,
Corning, N. Y.



EYE MAGNET



AIR HEATER

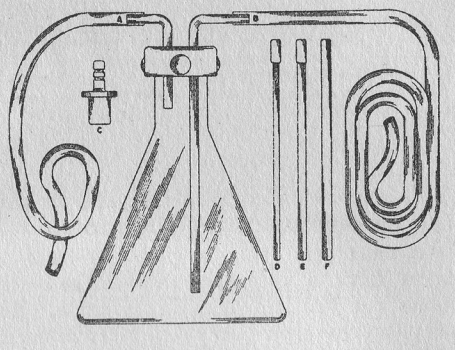
NASAL SUCTION

Nasal Suction is valuable for evacuation of mucopurulent discharge from nasal sinuses. *"Dr. W. H. Haskins uses this method in nasal practice for cleaning out the ethmoid cells, frontal sinus, antrum and sphenoid cells. He uses it with a eustachian catheter and it will take out any secretion you can get at. You see where it is coming from, put in the catheter, and suck it out, leaving the membrane clean for the application of whatever you may wish to make. He also uses it in mastoid surgery, and when it comes to working in the middle ear, it can be kept absolutely clean. It does all the sponging in mastoid work, and greatly shortens the work. You do not have to stop for anyone to sponge, but simply follow the catheter in the field of operation. If any one once tries it, he will be very quickly converted into using it."

**Trans. Am. Otol. Soc.*, May 3 and 4, 1910, and abstracted in *Laryngoscope*, p. 1080, Nov., 1910.

The machine is working fine and I could not well do without it.

DR. F. J. MORRISON,
Nurney Building, Suffolk, Va.



SUPERHEATED AIR IS A MEASURE OF GREAT VALUE

Hopkins, of Cleveland, in treating chronic catarrhal deafness, employs an electric compressed air heater. He has treated sixty-four cases of ankylosis of the stapes, with but four failures, and these had labyrinthine involvement. *Technique*—The ear is cleansed with alcohol; narrow strips of gauze are packed in the ear and a large pad of gauze placed over it and air sent into the canal at a temperature which gradually reaches 400 degrees. One ear only is treated on any one day. Treatments are given three times weekly for three to twelve months. After the superheated air treatment, inflate the Eustachian tube with a warm vapor.

Ferran is also an advocate of hot air in otology. In cases of tubal catarrh the results have been far better than by any other method. He reports cases which returned to normal hearing when little improvement had

I am using your machine every day. I have had some wonderful results.

Yours respectfully,
DR. A. G. ANDERSON,
Salina, Kansas.

been previously obtained. Cases of trigeminal neuralgia are quickly relieved by directing a stream of warm air toward the juncture of the branches of the trigeminus. The Air Heater shown in cut is exceedingly convenient and may be employed with the pump in administration of superheated air, or medicated vapor may be passed through the heater and administered to the ear or nose.

MODEL D

This is another dental cabinet, and we will be glad to send literature if interested.

We often find that a physician and a dentist have a communicating office with probably a waiting room in common. In such cases this style outfit may be of interest as the physician can use it in his practice and he can also do the X-ray work for the dentist.

In a few minutes he can have for the dentist a radiograph showing conditions of filling; locate roots; locate pus sacs and many other things of great value to the dentist.

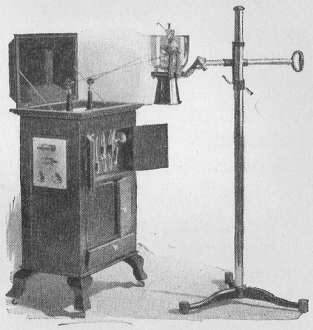
We teach you to make dental films and the dentist will call on you daily for radiographs when he realizes their value to him.

I received the electric apparatus in first-class condition, and it works perfectly.

I appreciate your kindness in the matter and wish to state that I consider the machine the best on the market for eye, ear, nose and throat specialists.

Again thanking you, I am, respectfully,

DR. CHARLES A. CRAMTON,
St. Johnsbury, Vt.



MODEL "D." DENTAL X-RAY CABINET

(*See page* 74)

MODEL E

It embraces the following features:

1. TANKLESS COMPRESSED AIR. No laborious pumping. No waiting. No more tanks with stale, stagnant air. Pure, sweet air is pumped as needed, delivered under pressure desired, and the pressure is uniform.

2. A NEBULIZING OUTFIT. With bottles and tips for nebulizing, spraying and powder blowing.

3. AN ELECTRIC HEATER FOR FLUIDS.

4. AN ELECTRIC HEATER FOR AIR. Dry hot air can be delivered up to any temperature the patient can endure. Volume adjustable. Applicators for using locally over any area are included.

5. A PENETRATING VIBRATOR. A Vibrator that can be controlled by the thumb while treating and which gives patient any kind of treatment from a gentle thrill to a deeply penetrating vibration, and the operator gets no vibration.

6. A FULL SET OF VIBRATODES FOR SURFACE AND CAVITY WORK.

7. HEAT AND VIBRATION APPLIED SIMULTANEOUSLY.

8. BIER'S HYPEREMIA BY VACUUM.

I purchased one of your H. Machines a couple of months ago, and will say am well pleased with same. I have been very successful in reducing high blood pressure. Cured an epithelioma on the lip, one case of ulcer of the sigmoid flexure and several other very troublesome diseases. I treat chronic cases altogether, and find the high-frequency currents very beneficial in my practice. The X-ray is also very fine. I had the pleasure of photographing some gall stones, tumor of the stomach, prolapsus of the stomach and many more too numerous to mention here at this time.

I consider it a grand machine in competent hands.

Yours respectfully,

G. B. Ross, M. D.,
715 Herskowitz Building,
Oklahoma City, Okla.

9. FULL SET OF VACUUM CUPS AND ANY DEVICE EVER GOTTEN UP BY DR. BIER CAN BE USED ON THIS APPARATUS.

10. A LUNG DEVELOPER AND EUSTACHIAN TUBE OPENER.

11. VIBRATION, VACUUM AND SINUSOIDAL CURRENT APPLIED SIMULTANEOUSLY.

12. VIBRATION AND VACUUM APPLIED SIMULTANEOUSLY.

13. HIGH-FREQUENCY CURRENTS. The most powerful and valuable current in Electrotherapy. Frequency regulation and strength of current are both under perfect control.

14. COMPLETE SET OF VACUUM ELECTRODES. Surface, rectal, vaginal, urethral, nose and throat. With universal insulated handle.

15. SPECIAL FULGURATION ELECTRODE. For warts, moles, etc.

16. D'ARSONVAL CURRENT. For Autocondensation.

17. CAUTERY TRANSFORMER. Under perfect and positive regulation. With three platinum knives, a pair of extra flexible cords, and a handle adjustable to three positions.

18. DIAGNOSTIC LIGHT CONTROLLER. With illuminator, long cords and lamps. Has wide range and will control perfectly any lamp made for diagnostic purposes.

19. SINUSOIDAL CURRENT. With cord and handles.

20. X-RAY CURRENT. With 6-inch, heavy anode tube, tube holder and fluoroscope of lasting qualities.

21. AUTO-CONDENSATION PAD.

The apparatus is giving me perfect satisfaction.

Yours truly,
DR. GEORGE W. BOWLES,
112 West King Street,
York, Pa.

MODEL "E" THOMPSON-PLASTER CABINET (WITH TUBE STAND)

(*See page* 75)

This is probably our most popular outfit as it embraces so many features and does all so well. It is the outfit for the general practitioner as he has so many different treatments at his instant command. The X-ray is sufficient in power for the ordinary emergencies of life and will prove a source of great satisfaction to see with the fluoroscope or make radiographs of broken bones, locate foreign bodies, etc. It has the highest power X-ray and the heaviest amperage high-frequency possible to build in same instrument occupying the same space.

The following exposure chart will give you an idea of the range of the X-ray.

EXPOSURE CHART FOR MODEL E
THOMPSON-PLASTER OUTFIT

Owing to the fact that so many factors enter into the determination of the proper lengths of exposures, the following schedule is only approximate.

It is based on a medium-weight patient, with lever "K" on point 4; "E" on X-ray;

We are doing wonders with your machine and all the doctors in town send us patients. One in particular had prostate gland trouble, and his doctor said I could have treated him and charged $100, but I sent him to you as I knew you could cure him in a much shorter time as you had done with Mr. Smith.

Yours truly,
DR. ERNEST W. BROWN,
Sulphur, Okla.

and "F" on point marked "Strong"; and using Paragon Plates.

Part to be Radiographed	Distance of Anode from Plate	Thickness of Object	Without Int. Screen	With Int. Screen
Hand.....	15 in.	1¼ in.	4 sec.	1 sec.
Wrist, lateral...	15 "	1½ "	6 "	1½ "
Wrist, ant.-post.	15 "	2½ "	7 "	1½ "
Elbow.....	15 "	3½ "	8 "	2 "
Foot, lateral....	15 "	3 "	8 "	2 "
Foot, ant.-post.	16 "	2½ "	6 "	1½ "
Ankle, lateral...	15 "	3½ "	8 "	2 "
Ankle, ant.-post.	17 "	4 "	10 "	2½ "
Upper Arm....	17 "	4 "	12 "	3 "
Knee.....	17 "	5 "	16 "	4 "
Shoulder.....	17 "	5½ "	20 "	5 "
Head, lateral...	18 "	6½ "	30 "	6 "
Head of Femur.	18 "	7½ "	40 "	10 "
Chest.....	18 "	8 "	40 "	10 "

For patients weighing over 150 pounds use a trifle longer exposure than above. For smaller patients, shorten time.

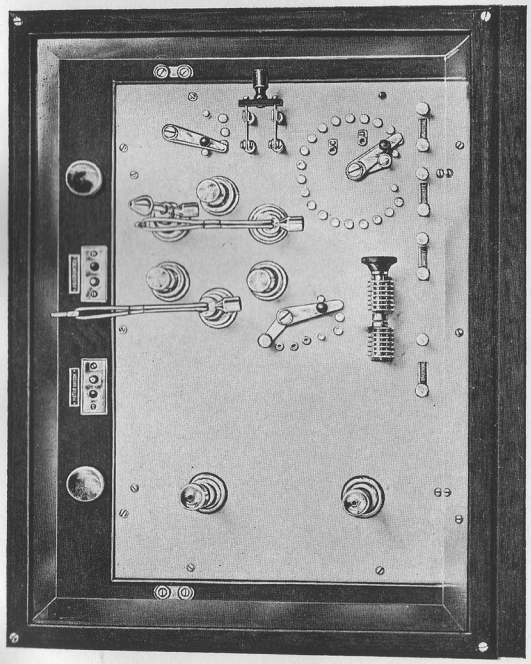
If you are interested specially in very high power X-ray we call your attention to Model H. Or, if you are specializing in electro therapy or expect to do so and want highest power possible D'Arsonval, see our Model F.

June 7, 1915.

In answer to your inquiry of June 1, 1915, in which you have asked me to express my opinion of your cabinet, I am going to be frank, honest and brief and say, having used it for one year I do not regret buying same and I would not care to get along without it and am willing to pay double the price charged for it, rather than be without it. I am,

Cordially yours,

(Signed) Dr. C. W. McKee,
Greensburg, Pa.



TOP VIEW, MODEL "E" THOMPSON-PLASTER CABINET

(*See page 75*)

MODEL F

It embraces the following features:

1. TANKLESS COMPRESSED AIR. No laborious pumping. No waiting. No more tanks with stale, stagnant air. Pure, sweet air is pumped as needed, delivered under pressure desired, and the pressure is uniform.

2. A NEBULIZING OUTFIT. With bottles and tips for nebulizing, spraying and powder blowing.

3. AN ELECTRIC HEATER FOR FLUIDS.

4. AN ELECTRIC HEATER FOR AIR. Dry hot air can be delivered up to any temperature the patient can endure. Volume adjustable. Applicators for using locally over any area are included.

5. A PENETRATING VIBRATOR. A Vibrator that can be controlled by the thumb while treating and which gives patient any kind of treatment from a gentle thrill to a deeply penetrating vibration, and the operator gets no vibration.

6. A FULL SET OF VIBRATODES FOR SURFACE AND CAVITY WORK.

7. HEAT AND VIBRATION APPLIED SIMULTANEOUSLY.

8. BIER'S HYPEREMIA BY VACUUM.

I must say that my cabinet has proven itself a splendid investment in a number of cases.

Last week I was able to locate a large Canadian one-cent piece in the æsophagus of a three-year-old child, and to remove it without difficulty, to the great joy of the child's parents and to my proper satisfaction. Yesterday I made a successful radiograph of a lower maxilla and discovered a fracture as the result of a blow from a horse's foot on my patient's jaw. On the fourth I took a radiograph of a broken leg, a very bad compound fracture three weeks old.

I enclose radiograph of a hand which I made Thursday, simply as a matter of practice. I never saw any finer detail in any X-ray picture. You may pass it to your Mr. Moeckel if he wishes to show what a novice can do with your Cabinet, Model H.

Yours very truly,
C. J. Veniot, M. D.,
Bathurst, N. B.

9. FULL SET OF VACUUM CUPS AND ANY DEVICE EVER GOTTEN UP BY DR. BIER CAN BE USED ON THIS APPARATUS.

10. A LUNG DEVELOPER AND EUSTACHIAN TUBE OPENER.

11. VIBRATION, VACUUM AND SINUSOIDAL CURRENT APPLIED SIMULTANEOUSLY.

12. VIBRATION AND VACUUM APPLIED SIMULTANEOUSLY.

13. HIGH-FREQUENCY CURRENTS. The most powerful and valuable current in Electrotherapy. Frequency regulation and strength of current are both under perfect control.

14. COMPLETE SET OF VACUUM ELECTRODES. Surface, rectal, vaginal, urethral, nose and throat. With universal insulated handle.

15. SPECIAL FULGURATION ELECTRODE. For warts, moles, etc.

16. D'ARSONVAL CURRENT. High amperage and perfect control of an extreme high frequency for Auto-condensation.

17. CAUTERY TRANSFORMER. Under perfect and positive regulation. With three platinum knives, a pair of extra flexible cords, and a handle adjustable to five positions.

I cannot withhold the commendation for your appliance, especially when it means a broadening out and demonstration of an article with which I am perfectly familiar and genuinely pleased with.

I have now used the Electrical Cabinet about eighteen months; in that time have treated numberless cases and not met with failure in any one appropriate case by either benefit or cure.

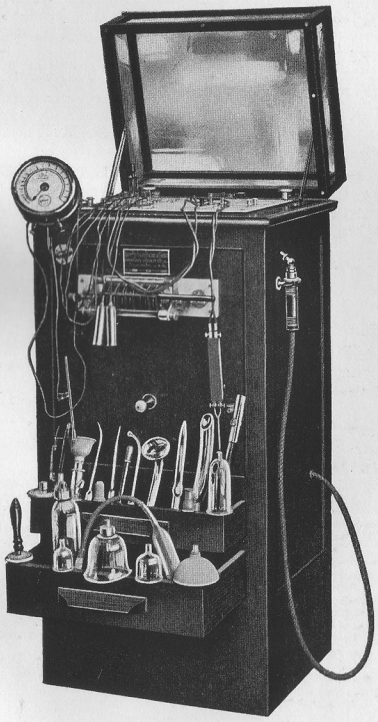
I have in mind one case of a business man who has suffered eight years with eczema. He had been to many cures and had been told that his case was incurable. When I took charge of the case he was a nervous wreck on account of the malady and loss of sleep. In six months with the aid of your appliances I dismissed him as cured. There has been no return of the affliction.

I have kept an accurate account of income from Cabinet and to date the returns show a net profit of $1,486.00 and the appliance still in good condition, and my list of patients growing.

I certainly wish you all success.

Yours truly,

(Signed) S. T. HAMBERLIN, Ph. D., M. D.,
Tampa, Florida.



MODEL "F" THOMPSON-PLASTER CABINET

(*See page* 79)

18. DIAGNOSTIC LIGHT CONTROLLER. With illuminator, long cords and lamps. Has wide range and will control perfectly any lamp made for diagnostic purposes.

19. SINUSOIDAL CURRENT. With cords and handles.

20. AUTO-CONDENSATION COUCH. Extra large and heavily insulated.

21. DIATHERMIC CURRENT. With complete set of electrodes in pairs for local or enlarged area application. Under simple control for any amount of amperage from zero to all that can be safely applied.

22. MILLIAMPERE METER. For measuring the amount of current in Auto-condensation or Diathermic treatments.

23. AN OZONE GENERATOR can be added if desired.

We are proud of this outfit as it gives very heavy amperage D'Arsonval and Diathermy and is a valuable treatment outfit for the physician who specializes in this line of treatment.

The multiple-spark gap is apparently a necessity in the construction of this high-amperage outfit and the difficulty heretofore has been the fact that the spark gap soon gets too hot; and in addition to this objectionable feature is the fact that these

---

The X-ray attachment has to me proven entirely satisfactory, and proven invaluable in my fracture cases. I can cite an instance of a fractured right clavicle in a stout woman, having been *clearly* located with my Thompson-Plaster X-ray attachment.

After using the cabinet over a period of six months, the worst I can say is that "It has done well, all that they have claimed for it."

Respectfully,

DR. EDWIN S. MINNER,
Main Street, Egypt, Pa.

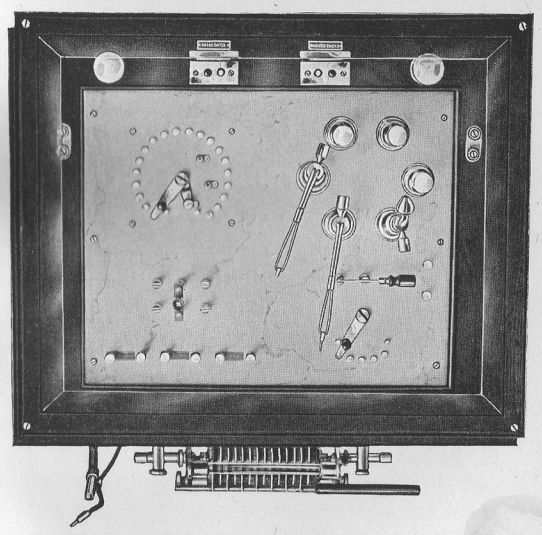
high-potential currents generate a large amount of ozone within the spark gap. As ozone is the most active oxidizing agent in Nature, it rapidly oxidizes the points of the spark gap and the frequent cleaning of same becomes necessary and a nuisance. We have adopted a special spark point that resists oxidation longer than silver; and in addition to this we start our pump running at same time these high-potential currents are being generated and we convey a current of cold air through every chamber of the spark gap, thus not only keeping it comparatively cool, but at the same time blowing out the ozone as fast as it is generated and thus eliminating the necessity of frequent cleaning of the spark gap.

This is a very ingenious and valuable part of this outfit and it will commend itself to users of high-potential currents who have had their troubles along this line. This outfit gives the highest amperage D'Arsonval currents of very great high frequency and therefore very smooth and easily controlled.

I am certainly very much pleased with the outfit, having taken many good X-ray pictures of colles, palts and shoulder and knee fractures which were very satisfactory. I have nearly paid for the machine now, out of the work which it has done.

Respectfully yours,

DR. J. L. POTTER,
Water Street,
Guilford, Maine.



TOP VIEW, MODEL "F" THOMPSON-PLASTER CABINET

(*See page* 79)

DIATHERMY

Probably 5,000 milliamperes of current can be obtained if ever needed. This is one of the newer currents in electro-therapy or at least its method of application is comparatively new in this country. Before the outbreak of the European War Nagelschmidt and other German physicians were experimenting largely with this current and their medical journals have chronicled many interesting and encouraging reports of results obtained.

We are reproducing on page 95 an article read before Essex County Medical Society by Dr. A. C. Geyser, of New York City, in which he gives his experience with this current.

The photos shown facing pages 84 and 103 illustrate several methods of application of "Diathermy" or heat penetration as used by Dr. Omar T. Cruikshank in the treatment of pneumonia, any congested condition of the lungs and pulmonary tuberculosis.

Dr. Cruikshank says: "By shifting the front of the electrode over the stomach very

---

Please send me at once (with bill) one atomizer and extra bottle for my compressed air outfit. The apparatus bought from you has been very satisfactory, and has greatly increased my office practice.

Yours truly,

DR. WILLIAM LATANE LEWIS,
Kensington, Md.

prompt relief is given to acute indigestion, heartburn, and sick headache.

"Shifting the electrode over the heart will cure false angina, and give great temporary relief to the true angina pectoris, promptly relieving the pain, and giving hours of comfort.

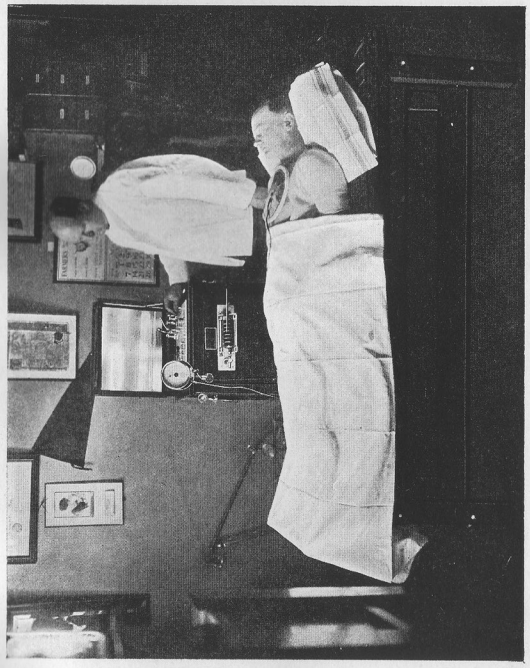
"If taken in the earlier stages, pulmonary tuberculosis can be cured, and stay cured, by a proper use of Diathermy combined with X-ray and proper hygiene.

"In pneumonia, I consider Diathermy a specific, having cleared up a number of cases of beginning pneumonia with one good treatment. Even in well-advanced cases I have seen the pneumonia cleared up in four or five days, using Diathermy alone. Three or four treatments daily were given, of fifteen to twenty minutes each, depending on the amperage, with a four-inch metal disk connected to one D'Arsonval post placed on front of chest and the other pole connected to the chair placed under the patient's back.

"Pass seven to twelve hundred milliamperes of current or more for fifteen minutes or until it feels quite warm to patient, then move metal disk to a new place and repeat until the whole chest is thoroughly warmed up,

---

I am much pleased with the cabinet and the results it brings.
Yours truly,
L. Hall Trufant, M. D.,
Norway, Maine.



DR. CRUIKSHANK TREATING PNEUMONIA WITH D'ARSONVAL CURRENT

(*See page 83*)

being very careful to make very good contact with the metal disk to the chest wall, for if the disk is tilted to one side, and does not make good contact, the current jumping from the loose edge of disk will very quickly blister the skin.

"Another method is to apply two eight-inch pads Spongioline, well wet with a saturated solution of salt water, to opposite sides of chest, apply current until patient complains of the heat, then move both pads.

"Remembering that the sensations of the patient can only be taken as a guide when they are active, watch your meter and do not use enough to do harm, especially when using heavy amperage."

MODEL H

This outfit has been built specially with high-power X-ray in view, hence giving a very high voltage. It is so simple to operate, ten minutes' instruction is all that is necessary. No multiplicity of switches and levers—simple to operate. The attached exposure chart will give you an idea of its use-

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February 15, 1916.

Mr. H. A. Thompson,

Dear Sir:—Since Mr. Shryock installed Model H in my office I have been more than satisfied with it. It will do more and better X-ray work than Mr. S. guaranteed. Simple, easy to handle, and effective. Most satisfactory.

Yours truly,
GEORGE H. COBB, M. D.,
117 Irvington Avenue,
South Orange, N.

fulness and its range. In fact, it will do everything that you would not send to a specialist, anyway.

In tissue work, of course, the ability to read the plate after made is the most difficult part, and you would prefer to refer such cases to an expert who has spent years of his time in interpreting the meanings of the various lights and shadows shown in this class of work.

In reducing fractures it is certainly so much more satisfactory to be able to see just what you are doing and therefore take no chances, and radiographs as records of your work will eliminate danger of lawsuits.

The annexed exposure chart will give you an idea of its range and field of usefulness.

It embraces the following features:

1. TANKLESS COMPRESSED AIR. No laborious pumping. No waiting. No more tanks with stale, stagnant air. Pure, sweet air is pumped as needed, delivered under pressure desired, and the pressure is uniform.
2. A NEBULIZING OUTFIT. With bottles and tips for nebulizing, spraying and powder blowing.
3. AN ELECTRIC HEATER FOR FLUIDS.
4. AN ELECTRIC HEATER FOR AIR. Dry hot air can be delivered up to any temperature the patient can endure. Volume adjustable. Applicators for using locally over any area are included.
5. A PENETRATING VIBRATOR. A Vibrator that can be controlled by the thumb

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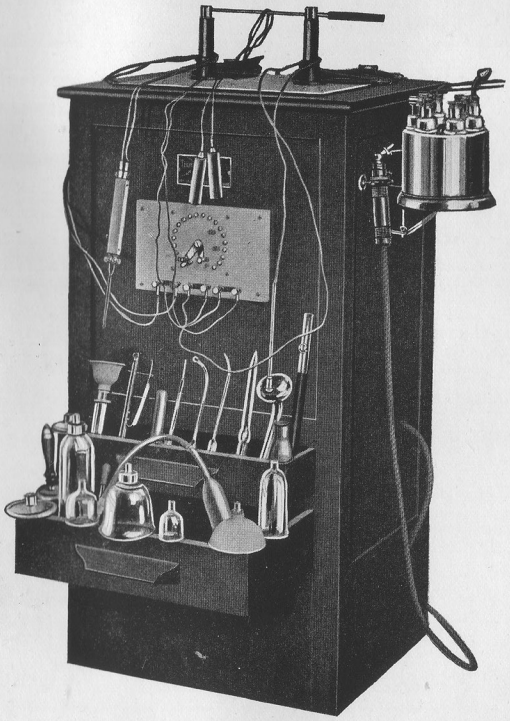
April 8, 1916.
The machine is fine.—Dr. C. W. Clark, Augusta, Maine.



MODEL "H" THOMPSON-PLASTER CABINET (LEFT-HAND SIDE)

(*See page* 85)

while treating and which gives patient any kind of treatment from a gentle thrill to a deeply penetrating vibration, and the operator gets no vibration.

6. A FULL SET OF VIBRATODES FOR SURFACE AND CAVITY WORK.

7. HEAT AND VIBRATION APPLIED SIMULTANEOUSLY.

8. BIER'S HYPEREMIA BY VACUUM.

9. FULL SET OF VACUUM CUPS AND ANY DEVICE EVER GOTTEN UP BY DR. BIER CAN BE USED ON THIS APPARATUS.

10. A LUNG DEVELOPER AND EUSTACHIAN TUBE OPENER.

11. VIBRATION, VACUUM AND SINUSOIDAL CURRENT APPLIED SIMULTANEOUSLY.

12. VIBRATION AND VACUUM APPLIED SIMULTANEOUSLY.

13. HIGH-FREQUENCY CURRENTS. The most powerful and valuable current in Electrotherapy. Frequency regulation and strength of current are both under perfect control.

14. COMPLETE SET OF VACUUM ELECTRODES. Surface, rectal, vaginal, urethral, nose and throat. With universal insulated handle.

15. SPECIAL FULGURATION ELECTRODE. For warts, moles, etc.

16. CAUTERY TRANSFORMER. Under perfect and positive regulation. With three platinum knives, a pair of extra flexible cords, and a handle adjustable to five positions.

17. DIAGNOSTIC LIGHT CONTROLLER. With illuminator, long cords, and lamps. Has wide range and will control perfectly any lamp made for diagnostic purposes.

18. SINUSOIDAL CURRENT. With cords and handles.

Incidentally let me say that the T. P. Cabinet continues to render splendid service. It has "bucked" only once since I have it. That was "motor" trouble, easily corrected.

Very truly,

DR. SCHANTZ,
Reading, Pa.

19. X-RAY CURRENT. With 6-inch heavy anode tube, tube holder and fluoroscope of lasting qualities.

DID YOU EVER SEE SO MUCH IN ONE APPARATUS? It is your kind of an apparatus. It is built for the doctor who wants to do things. See it at first opportunity, or send for literature. We have other styles.

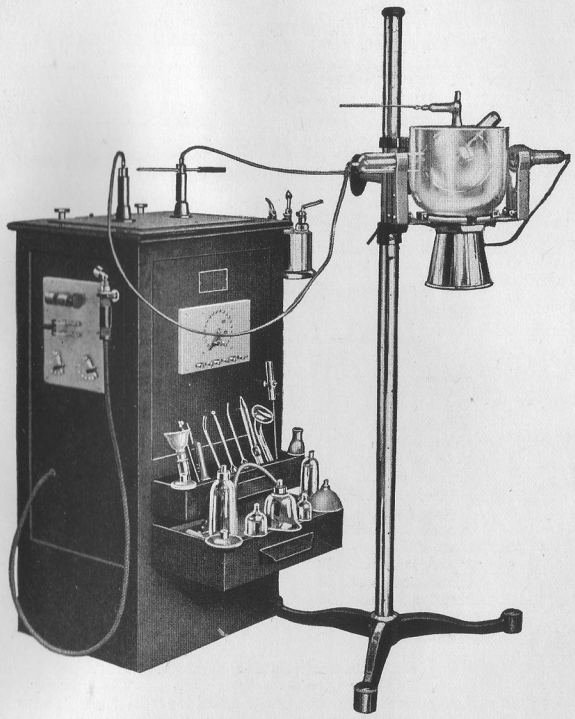
EXPOSURE CHART FOR MODEL H THOMPSON-PLASTER CABINET

Owing to the fact that so many factors enter into the determination of the proper lengths and exposures, the following schedule is only approximate.

It is based on a medium-weight patient, with lever "K" on point 4 and lever "C" on point 6, and using Paragon Plates.

Part to be Radiographed	Distance of Anode from Plate	Thickness of Object	Without Int. Screen	With Int. Screen
Hand.....	15 in.	1¼ in.	1 sec.	Quick flash
Wrist, lateral...	15 "	1½ "	2 "	½ sec.
Wrist, ant.-post.	15 "	2½ "	3 "	¾ "
Elbow.....	15 "	3½ "	3½ "	¾ "
Foot, lateral....	15 "	3 "	3½ "	¾ "
Foot, ant.-post.	16 "	2½ "	2½ "	¾ "
Ankle, lateral...	15 "	3½ "	4 "	1 "
Ankle, ant.-post.	17 "	4 "	4½ "	1 "
Upper Arm....	17 "	4 "	5 "	1¼ "
Knee.....	17 "	5 "	7 "	1½ "
Shoulder.....	17 "	5½ "	8 "	1¼ "
Head, lateral...	18 "	6½ "	11 "	3 "
Head, ant.-post.	18 "	8 "	22 "	5 "
Head of Femur.	18 "	7½ "	20 "	5 "
Chest.....	18 "	8 "	16 "	4½ "
Spine.....	18 "	8 "	20 "	5 "

For patients weighing over 150 pounds use a trifle longer exposure than above. For smaller patients, shorten time. With lever "C" on point 5, add 50 per cent. to exposure. With lever "C" on point 4, double the time of exposure.



MODEL "H" (WITH TUBE STAND) THOMPSON-PLASTER CABINET

(*See page* 88)

MODEL E PORTABLE

This is combination X-ray and treatment outfit and is in convenient form to be transported from place to place as occasion may demand. It embraces the following features:

X-ray.
High frequency.
Cautery.
Diagnostic light.
Sinusoidal.

This is the same as the top to our Model E and reference is made to it for further information.

The price of this outfit completely equipped is only $160 in easy payments. Thus we place it in reach of every physician.

MODEL H PORTABLE

This is built in handsome cabinet with disappearing handles on each side, and hence when necessary to move it from place to place it can be easily done, although it is quite heavy coil. It embraces the following:

Heavy X-ray.
High frequency.
Cautery.
Diagnostic light.

For exposure table see Model H.

I am highly pleased with results gotten on my Style H Cabinet. It has never disappointed me once, and I have done some very heavy work with it.

MASON COMBS, M. D.,
Pineville, Ky.

On all our outfits that embrace electrical modalities we have a lever control for which patent is pending, that is valuable.

Heretofore, the control has been by spark rod or spark gap and it often gives unsteady and varying current. In treating delicate mucous linings, to have the current run up on you causes your patient an unpleasant experience. With our control we eliminate the spark rod and have perfect and absolute control of the current and we can thus treat the most delicate organ, and in an instant we can have a powerful current if needed. With this control you can get just what you want and can hold it at that point throughout the treatment. This is a very important and valuable feature.

THE PUMP

One of the greatest difficulties that has confronted us in the construction of the Thompson-Plaster Electrical Cabinets has always been the pump. To build a combination air and vacuum pump is not a great mechanical problem, but to devise one that met our demands has consumed a long time

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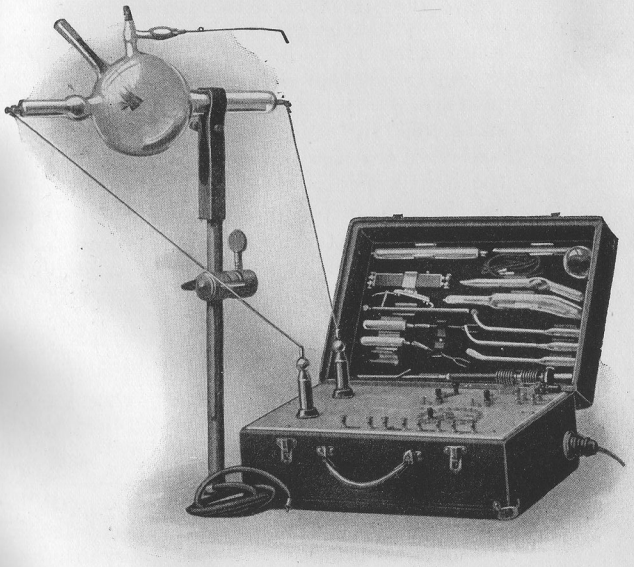
Very glad to say I am much pleased with the Thompson-Plaster X-Ray Outfit (Model H).

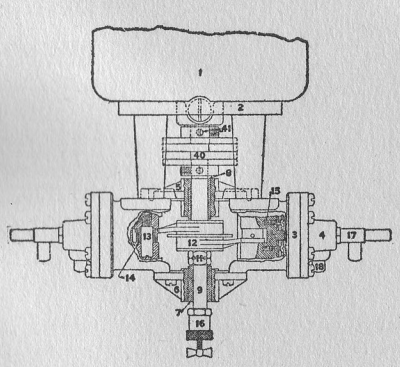
Very truly,
T. J. O'Sullivan, M. D.,
316 Congress St.,
Portland, Maine.



MODEL "E" PORTABLE THOMPSON-PLASTER CABINET

(*See page* 89)

and has been worked out only after much experimentation involving considerable expense. We searched the entire field with hope of finding one adapted to our needs, tried several, and found them all lacking in one or more essentials.



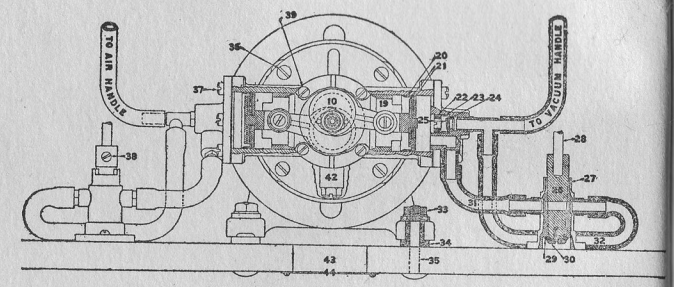
SECTIONAL VIEW OF MOTOR AND PUMP

Our specifications for our pump were as follows:

1. To have two entirely independent and securely separated cylinders—one for the compressed air and the other for vacuum. (Practically all such pumps heretofore constructed have either a single cylinder or the separation between the two is not sufficient and consequently they may become a source of infection instead of a

therapeutic agent. In cupping from vacuum side what is drawn into the tubing and cylinder may be forced out on the other side and delivered to patient who is using compressed air.)

2. It must have greater air pressure than other such outfits. (Other pumps were yielding from 8 to 18 pounds and we found there was a



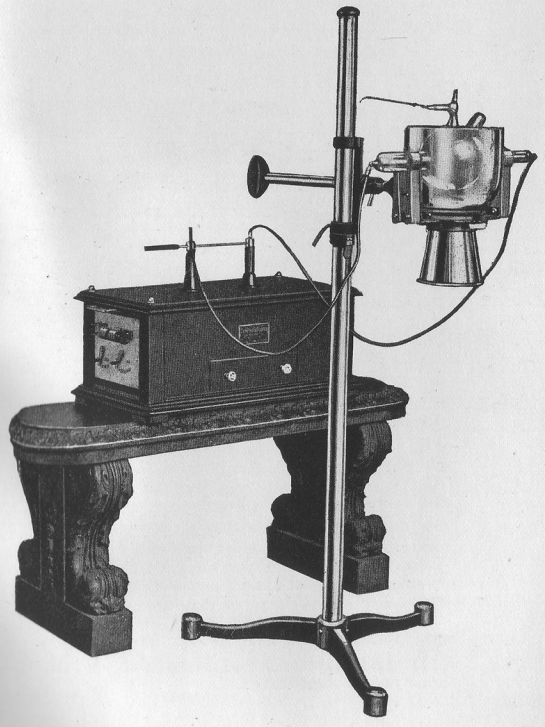
SIDE ELEVATION OF MOTOR PUMP

demand often for higher pressure. Our specifications called for forty pounds and more if possible.)

3. Pressure to be under perfect control at all times so that a simple movement of the thumb of operator would regulate volume at will or instantly cut it off entirely.

4. Pressure to be under perfect control of conveniently located lever to be set at any pressure from 0 to 40 and a uniform pressure maintained. (The importance of thus perfectly controlling the volume and pressure is not only of value in nose and throat work but is also of great importance in treating with dry hot air.)

5. The valves controlling air and vacuum must not be complicated.



MODEL "H" (PORTABLE) THOMPSON-PLASTER CABINET

(*See page* 89)

6. Higher vacuum required than heretofore obtained and under perfect and instant control. (In handling high vacuum it is often necessary to release same instantly.)

7. A deeply penetrating vibration stroke required, but not sufficient to bruise tissues.

8. Pneumo massage or a vibrating vacuum required of sufficient power and frequency to be useful and also capable of regulation at will.

9. Absolutely no gearing in the entire mechanism. (This feature is best appreciated by those who have tried to use outfits with gearing.)

10. Direct connection between motor and pump with perfect elasticity of the coupling (thus prolonging the life of both).

11. A pump that is practically noiseless in operation is required. (To eliminate noise was apparently our most difficult problem but we were always sure it could be done. A noisy pump is very objectionable to nervous patients and it often gets on the nerves of the operator.)

12. Perfect balance of all moving parts. (This means freedom from pump troubles and long life.)

13. All moving parts to work in the best of bronze bearings.

14. Perfect insulation between motor and pumps.

15. Vibration of pump reduced to minimum.

16. Finest of material and workmanship used in construction. (With the soaring prices of these war times this feature has been hard for us to live up to, but we shall continue to do it.)

17. All parts strictly interchangeable, so no difficulty in getting repairs if ever necessary.

18. One point oiling for all bearings so as to give the owner the least possible trouble in keeping bearings oiled.

19. Precision in manufacture—every part to be made by machine specially adapted to our work and thus insuring perfect working of all parts.

20. The best motor on the market without limit as to price. (After trying out various types and styles we adopted the Holtzer-Cabot as best adapted to our needs, notwithstanding the fact that it cost us more than other makes.)

21. Finally, a pump that we could at any time submit to any good mechanic feeling assured of his favorable opinion. Not simply something that answers the purpose, but a piece of mechanism that will readily be recognized by experts as having been constructed by master mechanics.

With these specifications as a chart to guide us we sought mechanics of great skill and were fortunate enough to put the matter in the hands of the master mechanic and head draftsman of a well-known adding machine employing men of great ability and skill in their line accustomed to work out complicated problems and to construct apparatus where absolute precision and high-grade workmanship are essential.

These gent'emen solved our problems to our entire satisfaction, fully complied with every specification, and gave us what we have long sought in the Thompson-Plaster Pump.

In the pump, as in every other feature of the cabinet, we are building for service and not simply to sell.

I am getting good results with my machine, especially with the Diathermic and Auto-condensation.

Yours truly,
W. J. Meadows, M. D.,
113 S. Elm Street,
Greensboro, N. C.

CHAPTER XVI

THE HIGH FREQUENCY CURRENT

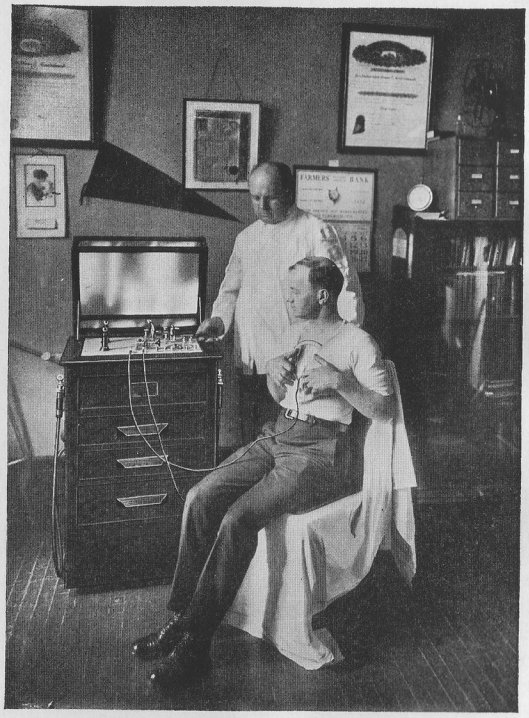
Its Effects Upon the Patient

By ALBERT C. GEYSER, M. D.
NEW YORK

DIATHERMIC

WHEN the two poles of this current are applied to any part of the body, there is not, or should not be, the slightest sensation. After a few minutes the part treated becomes sensibly warmed. The patient will tell you that each pulse beat can be perceptibly felt within that region. Upon inspection the parts appear hyperemic, feel hot to the touch and are covered with a profuse perspiration. We have produced some of the cardinal symptoms of inflammation—heat, redness and an increased blood supply. We have within the region treated all the elements necessary for a natural repair. This effect as we have seen did not proceed from without inward, but, on the contrary, from within outward.

From time immemorial heat in some form or other has been used to alleviate pain. This heat was always some external agent



DR. CRUIKSHANK TREATING TUBERCULOSIS OF THE LUNGS BY DR. A. C. GEYSER'S METHOD WITH D'ARSONVAL CURRENT

DR. ALBERT C. GEYSER STATES: "FROM ACTUAL PERSONAL EXPERIENCE, I AM WILLING TO GO ON RECORD WITH THE STATEMENT THAT I AM ALMOST CONVINCED THAT EVERY CASE OF PULMONARY TUBERCULOSIS IN THE FIRST STAGE IS CURABLE BY THIS CURRENT."

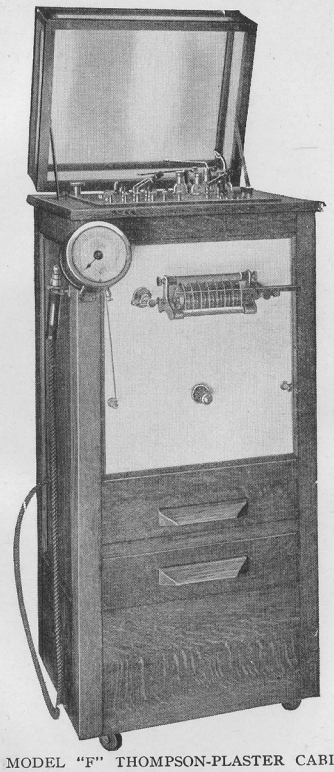
(*See page* 103)

JOINT TUBERCULOSIS

If the destruction of the tissues has not so far progressed that no one but the surgeon can offer any help, then this current will surprise the most skeptical. Apply a tinfoil electrode to either side of the joint, turn on the current to a point of comfort. Allow this current to run at least one to two hours per day. Where the reaction of Nature was wholly inadequate, in a few days sometimes a beautiful inflammatory process is set up with a profuse discharge of necrotic tissue and in a few weeks the healing process sets in that is wonderful to behold.

TUBERCULOSIS OF THE LUNGS

From actual personal experience I am willing to go upon record with the statement that I am almost convinced that every case of pulmonary tuberculosis *in the first stage* is curable by this current. Apply a large tinfoil electrode anterior and posterior over the affected area and pass through this five hundred to one thousand milliamperes for one hour twice daily. At the end of each treatment the patient is in a state of active reaction, the face is flushed, the perspiration upon his forehead, the thermometer shows a rise of one to two degrees by mouth.



1920 MODEL "F" THOMPSON-PLASTER CABINET

(*See page* 97)

necessary. No multiplicity of switches and levers—simple to operate. In fact, it will do everything that you would not send to a specialist, anyway.

In tissue work, of course, the ability to read the plate after made is the most difficult part, and you would prefer to refer such cases to an expert who has spent years of his time in interpreting the meanings of the various lights and shadows shown in this class of work.

In reducing fractures it is certainly so much more satisfactory to be able to see just what you are doing and therefore take no chances, and radiographs as records of your work will eliminate danger of lawsuits.

It embraces the following features:

1. TANKLESS COMPRESSED AIR. No laborious pumping. No waiting. No more tanks with stale, stagnant air. Pure, sweet air is pumped as needed, delivered under pressure desired, and the pressure is uniform.
2. A NEBULIZING OUTFIT. With bottles and tips for nebulizing, spraying and powder blowing.
3. AN ELECTRIC HEATER FOR FLUIDS.
4. AN ELECTRIC HEATER FOR AIR. Dry hot air can be delivered up to any temperature the patient can endure. Volume adjustable. Applicators for using locally over any area are included.
5. A PENETRATING VIBRATOR. A Vibrator that can be controlled by the thumb while treating and which gives patient any kind of treatment from a gentle thrill to a deeply penetrating vibration, and the operator gets no vibration.

JUNIOR INTERRUPTERLESS X-RAY TRANSFORMER

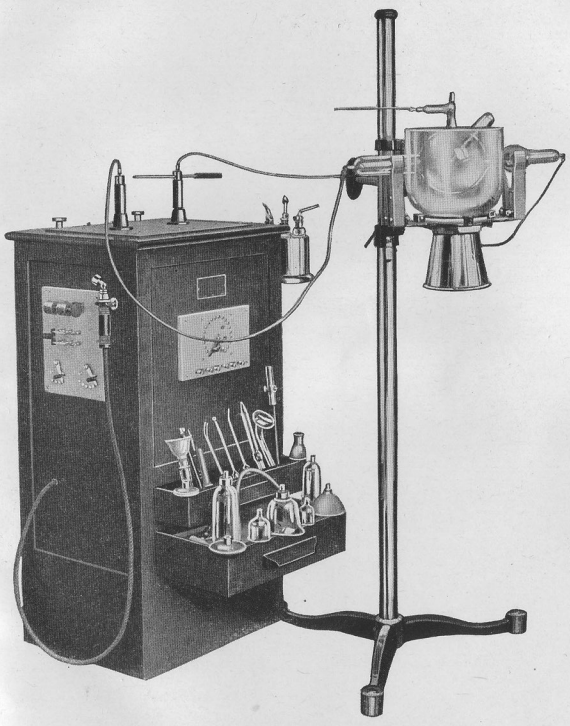
(Send for Special Literature)

built for the doctor who wants to do things. See it at first opportunity, or send for literature. We have other styles.

MODEL HH

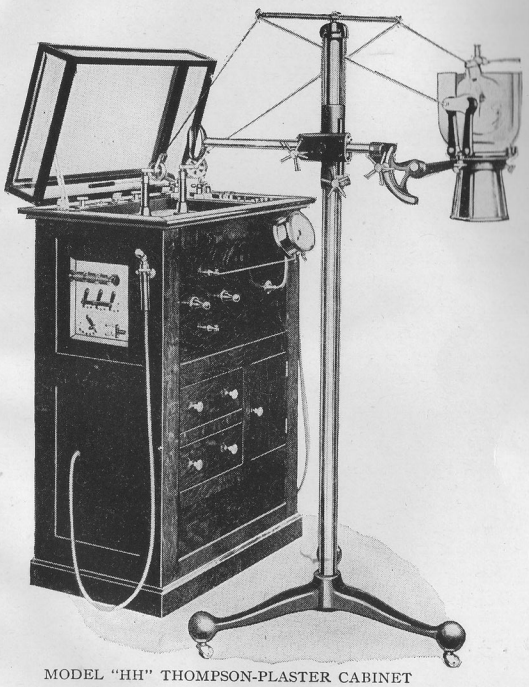
This is a high-power X-ray outfit without rectifiers, interrupters, and with no valve tube, no inverse currents—a clean, penetrating X-ray that will make a hand in one second and a hip or spine in 20 to 25 seconds. It also has high-power D'Arsonval current.

1. TANKLESS COMPRESSED AIR. No laborious pumping. No waiting. No more tanks with stale, stagnant air. Pure, sweet air is pumped as needed, delivered under pressure desired, and the pressure is uniform.
2. A NEBULIZING OUTFIT. With bottles and tips for nebulizing, spraying and powder blowing.
3. AN ELECTRIC HEATER FOR FLUIDS.
4. AN ELECTRIC HEATER FOR AIR. Dry hot air can be delivered up to any temperature the patient can endure. Volume adjustable. Applicators for using locally over any area are included.
5. A PENETRATING VIBRATOR. A Vibrator that can be controlled by the thumb while treating and which gives patient any kind of treatment from a gentle thrill to a deeply penetrating vibration, and the operator *gets no vibration.*
6. A FULL SET OF VIBRATODES FOR SURFACE AND CAVITY WORK.
7. HEAT AND VIBRATION APPLIED SIMULTANEOUSLY.
8. BIER'S HYPEREMIA BY VACUUM.



MODEL "H" (WITH TUBE STAND) THOMPSON-PLASTER CABINET

(*See page* 103)



MODEL "HH" THOMPSON-PLASTER CABINET

(*See page* 106)

9. FULL SET OF VACUUM CUPS AND ANY DEVICE EVER GOTTEN UP BY DR. BIER CAN BE USED ON THIS APPARATUS.

10. A LUNG DEVELOPER AND EUSTACHIAN TUBE OPENER.

11. VIBRATION, VACUUM AND SINUSOIDAL CURRENT APPLIED SIMULTANEOUSLY.

12. VIBRATION AND VACUUM APPLIED SIMULTANEOUSLY.

13. HIGH-FREQUENCY CURRENTS. The most powerful and valuable current in Electro-therapy. Frequency regulation and strength of current are both under perfect control.

14. COMPLETE SET OF VACUUM ELECTRODES. Surface, rectal, vaginal, urethral, nose and throat. With universal insulated handle.

15. SPECIAL FULGURATION ELECTRODE. For warts, moles, etc.

16. A HIGH AMPERAGE D'ARSONVAL CURRENT FOR AUTO-CONDENSATION TREATMENTS.

17. D'ARSONVAL PAD.

18. CAUTERY TRANSFORMER. Under perfect and positive regulation. With 3 platinum knives, a pair of extra flexible cords, and a handle adjustable to five positions.

19. DIAGNOSTIC LIGHT CONTROLLER. With illuminator, long cords and lamps. Has wide range and will control perfectly any lamp made for Diagnostic purposes.

20. SINUSOIDAL CURRENT. With cords and handles and with specially built rhetome by means of which either the slow or rapid sinusoidal can be obtained.

21. X-RAY CURRENT. With seven-inch heavy anode tube. This is high-grade X-RAY outfit.

22. COMPRESSION TUBE STAND. With lead glass protection bowl.